

Alaska Scientific Crime Detection Laboratory

DataMaster Repair Form

Effective: 3/20/2025

Version: 2.0

Instrument #: 100361

Analyst(s): Kaija Swisher

Start Date: 9/3/25

Reason for Repair

Solenoid wire shorting due to naked wire.

Troubleshooting/Repair

- Replaced solenoid wire.
- Began having filter wheel errors, noticed filter connection from controller board was not allowing Solenoid pin to move positions.
- Replaced controller board.
- Filter wheel then worked as normal.

☒ VOC (attached)

☒ VOC Internal Standard value $\leq 3.00\%$

☒ Verify software version

☒ Non-Drinking Subject Test (attached)

☐ Ready for Adjustment

☐ Further Repair Needed

☐ Proceed to Close Out

☒ Ready for Calibration

☐ Return to Factory

End Date: 9/4/25

Page 1 of 1

All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100361

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/04/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.66: 0.079

LOT #: AG335202

EXPIRATION: 12/18/2025

TANK PRESSURE: 1146 psi

BLANK TEST	0.000	14:58
INTERNAL STANDARD	VERIFIED	14:58
EXTERNAL STANDARD	0.079	14:59
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.078	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.079	15:01

Filter Wheel Error

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.02

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED

Breath Tube = 47.3°C PASSED

PUMP INFO

Flow Rate = 4.579 L/M PASSED

DETECTOR INFO

PUMP ON PASSED

PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED

Filter 2 PASSED

Filter 3 PASSED

INTERNAL STANDARD PASSED

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100361

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/04/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.66: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1137 psi

BLANK TEST	0.000	15:05
INTERNAL STANDARD	VERIFIED	15:05
Xq = 0.087 (0.30%)		
EXTERNAL STANDARD	0.078	15:05
X[1] = 0.0781 (-0.0009) (0.0009)		
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.078	15:06
X[1] = 0.0780 (-0.0005) (0.0013)		
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.078	15:07
X[1] = 0.0776 (-0.0011) (0.0009)		
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.077	15:08
X[1] = 0.0772 (-0.0015) (0.0003)		
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.078	15:10
X[1] = 0.0784 (-0.0001) (0.0005)		
BLANK TEST	0.000	15:10

Average = 0.0778
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.9°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.92 V	PASSED
(1.17 V - 2.73 V)	
Cooler Voltage = 1.89 V	PASSED
(1.01 V - 2.35 V)	
Bias Voltage = 81 V	PASSED
(48 V - 112 V)	
Chopper Freq = 531 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 4.616 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.003 V <= 0.010 V)	
PUMP OFF	PASSED
(0.003 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.087	0.99%	(0.00% - 4.00%)	PASSED
------------	-------	-----------------	--------

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 09/04/2025
Time: 15:13:02

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

DEPT/AGENCY:
NON-DRINKING SUBJECT TEST
CASE/REPORT: XXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.66: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	15:14
BLANK TEST	0.000	15:14
INTERNAL STANDARD	VERIFIED	15:14
EXTERNAL STANDARD	0.078	15:14
BLANK TEST	0.000	15:15
SUBJECT SAMPLE (Vol=2.18L)	0.000	15:15
BLANK TEST	0.000	15:16
EXTERNAL STANDARD	0.078	15:16
BLANK TEST	0.000	15:17

KS

